

Katie



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

February 24, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: January 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on January 20th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
JANUARY 20th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	400.50
MW-103	421.58	410.22
MW-105	404.98	379.99
MW-107	431.95	422.87
MW-108	419.89	410.21
MW-109	420.11	397.71
MW-110	461.86	415.95
MW-113	441.13	420.11
MW-114	405.20	385.54
TW-2 ⁴	404.18	403.28
TW-9	409.24	Frozen

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on January 20th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
JANUARY 20th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.82 ³	364.37
WPMP-1	401.27	397.15
SRMP-1	418.79	399.94
WPSG-2A	403.64 ³	Frozen

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Resurveyed reference elevation for LPSG-1 and WPSG-2A (4/24/2013).

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for January, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JANUARY, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.48
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	2.05

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 9,230,560 gallons for the month of January, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

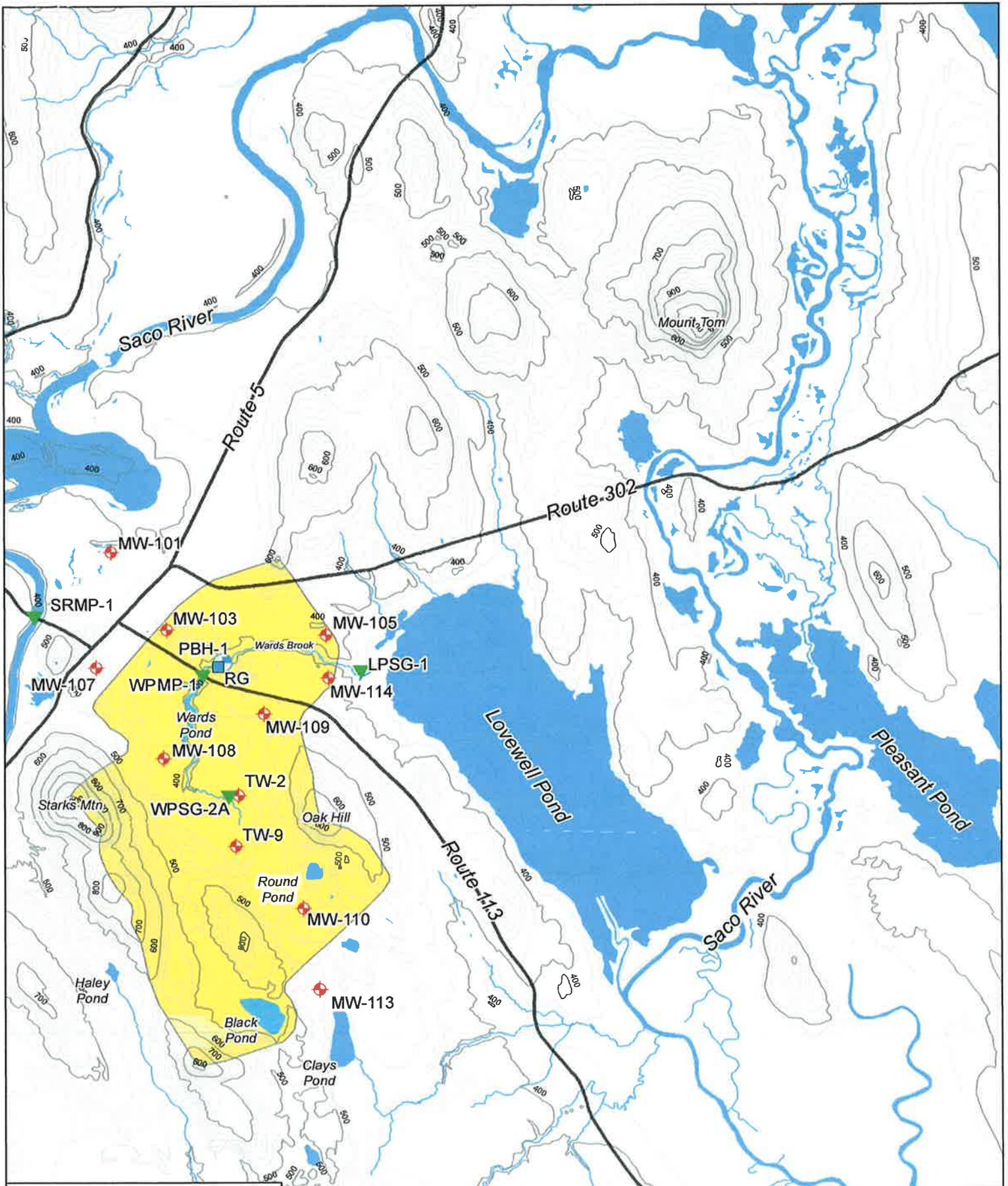
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE



NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
2. CONTOURS ARE 20' INTERVALS.

N

DATE:
1/3/2012


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March 24, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: February 2014 Aquifer Monitoring Report.

INTRODUCTION

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Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on February 20th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
FEBRUARY 20th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	398.56
MW-103	421.58	409.59
MW-105	404.98	379.67
MW-107	431.95	422.42
MW-108	419.89	409.98
MW-109	420.11	397.89
MW-110	461.86	416.21
MW-113	441.13	420.14
MW-114	405.20	384.84
TW-2 ⁴	404.18	Frozen
TW-9	409.24	Frozen

- Notes:
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 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
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SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

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- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on February 20th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
FEBRUARY 20th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.82 ³	362.61
WPMP-1	401.27	Frozen
SRMP-1	418.79	Frozen
WPSG-2A	403.64 ³	Frozen

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Resurveyed reference elevation for LPSG-1 and WPSG-2A (4/24/2013).

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for February, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
FEBRUARY, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.06
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	2.70

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 2,456,993 gallons for the month of February, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

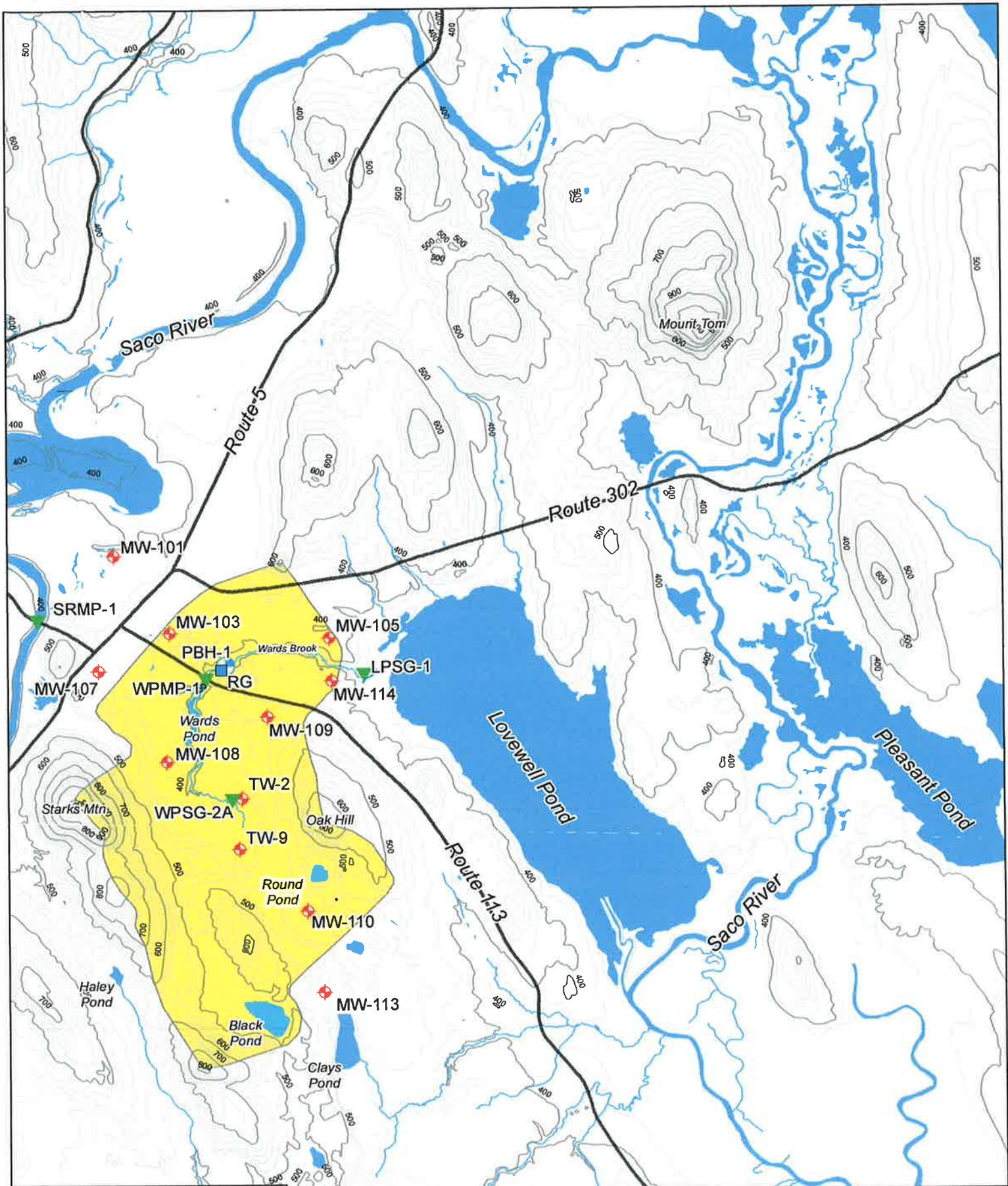
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE

0 0.25 0.5 1
 Miles

NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

N

 DATE:
 1/3/2012


LUETTE GEOLOGICAL SERVICES
 58 JOKE STREET
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 207-415-9888
 lgs@maine.rr.com



April 21, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

COPY

RE: March 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on March 19th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
MARCH 19th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	397.94
MW-103	421.58	409.27
MW-105	404.98	379.43
MW-107	431.95	421.80
MW-108	419.89	409.70
MW-109	420.11	397.61
MW-110	461.86	415.98
MW-113	441.13	420.03
MW-114	405.20	384.49
TW-2 ⁴	404.18	Frozen
TW-9	409.24	Frozen

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
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Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

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- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on March 19th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
MARCH 19th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.82 ³	362.59
WPMP-1	401.27	Frozen
SRMP-1	418.79	Frozen
WPSG-2A	403.64 ³	Frozen

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 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Resurveyed reference elevation for LPSG-1 and WPSG-2A (4/24/2013).

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for March, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
MARCH, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.97
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	4.03

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 5,007,260 gallons for the month of March, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

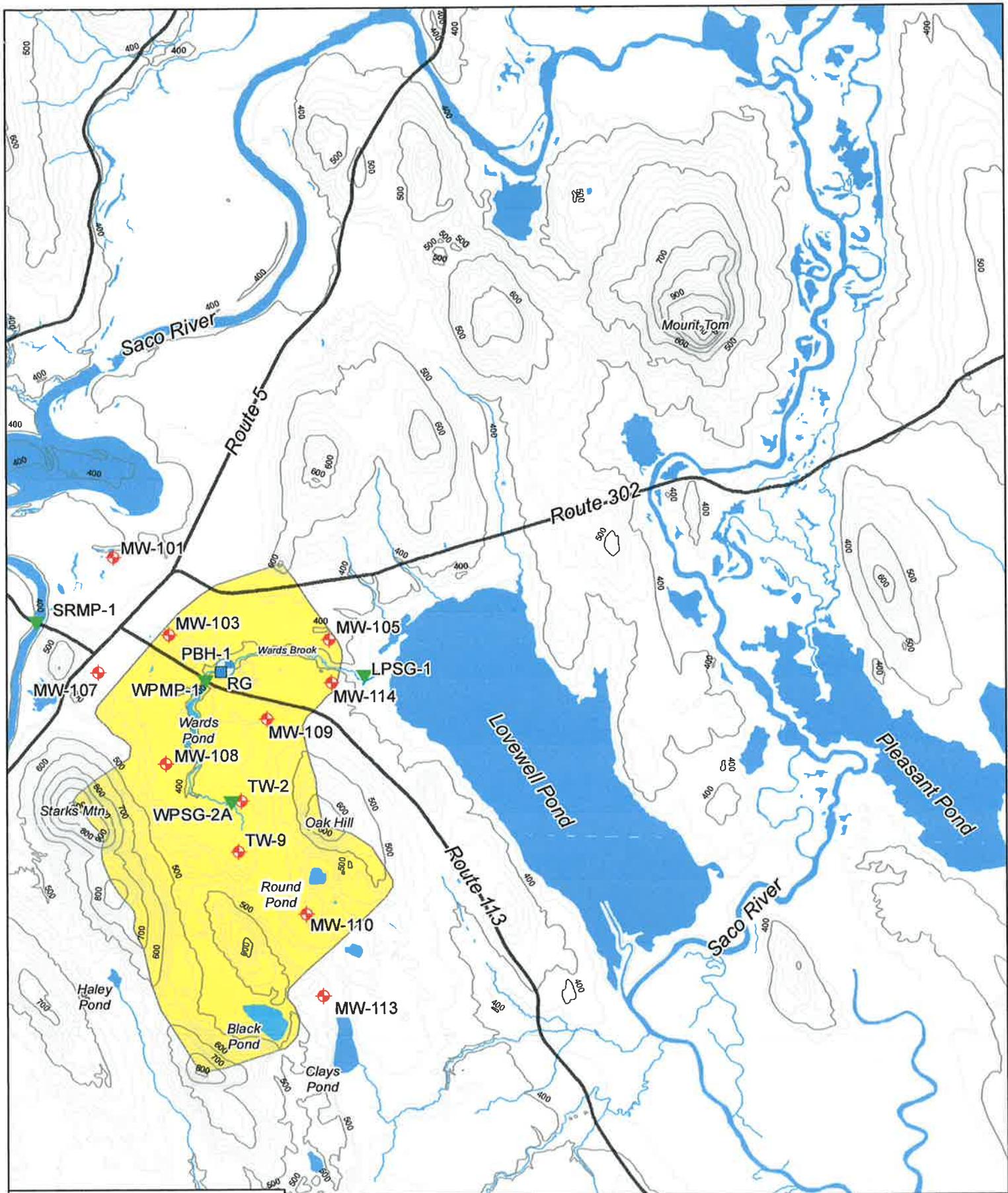
Sincerely,

Luetje Geological Services, LLC



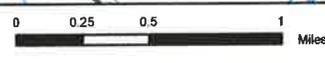
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cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
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-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
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-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE



NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

N

 DATE:
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 LUETJE GEOLOGICAL SERVICES
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 207-415-9898
 lg@maine.rr.com



May 21, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: April 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on April 18th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
APRIL 18th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	401.19
MW-103	421.58	412.21
MW-105	404.98	381.74
MW-107	431.95	427.28
MW-108	419.89	411.64
MW-109	420.11	399.57
MW-110	461.86	416.99
MW-113	441.13	420.97
MW-114	405.20	387.73
TW-2 ⁴	404.18	404.00
TW-9	409.24	409.37

- Notes:
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- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on April 18th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
APRIL 18th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	FLOODED
WPMP-1	401.27	397.31
SRMP-1	418.79	399.19
WPSG-2A	403.31 ³	401.34

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for April, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
APRIL, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.25
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.35

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 8,992,568 gallons for the month of April, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

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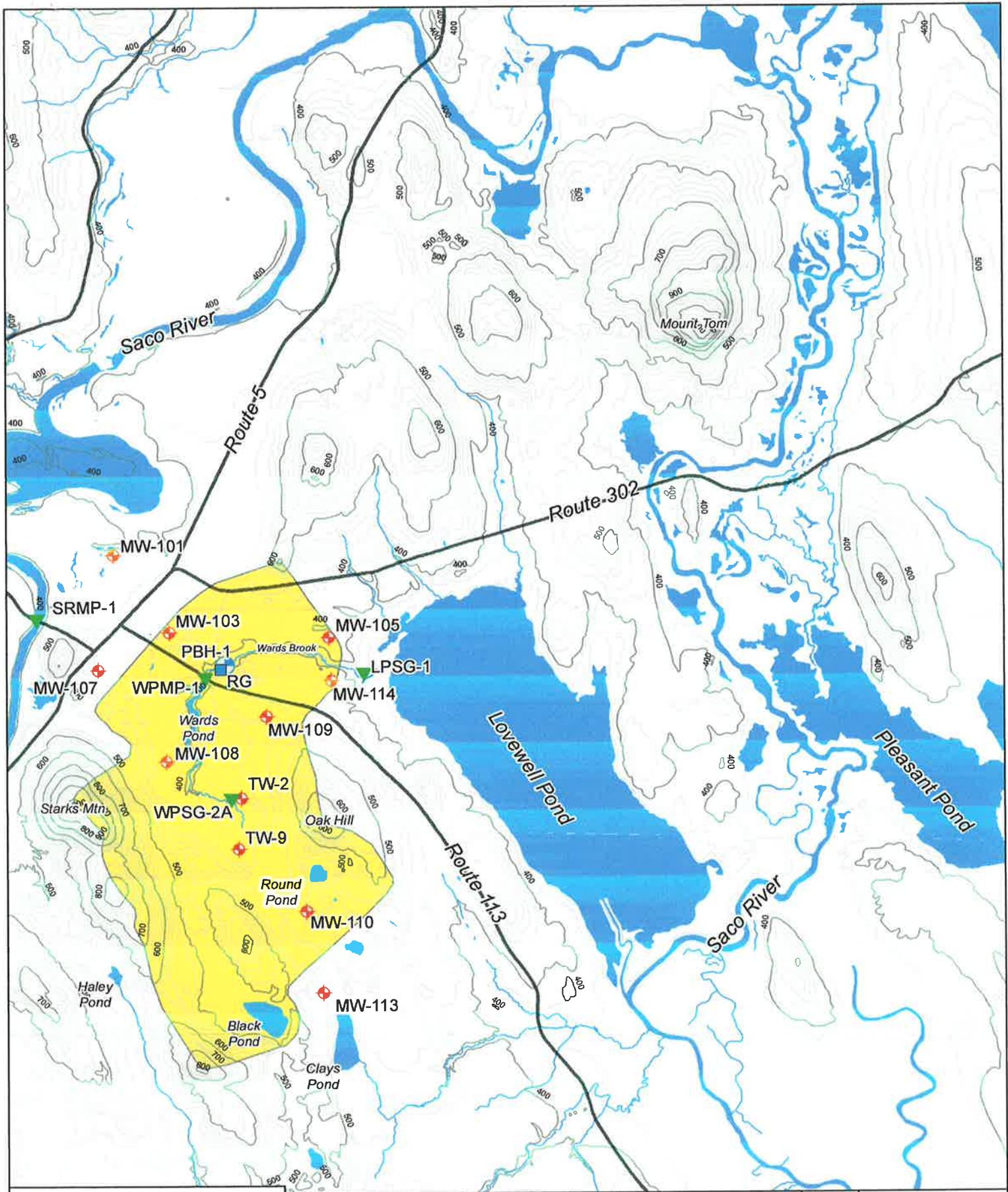
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FRYEBURG, MAINE



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June 30, 2014

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MW-113	441.13	422.48
MW-114	405.20	386.28
TW-2 ⁴	404.18	405.59
TW-9	409.24	NA ⁵

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'
 5. Reading not available due to temporary issue with test well (now resolved).

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on May 19th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
MAY 19th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	364.43
WPMP-1	401.27	397.19
SRMP-1	418.79	398.03
WPSG-2A	403.31 ³	401.22

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for May, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
MAY, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.78
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	4.43

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 10,477,408 gallons for the month of May, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

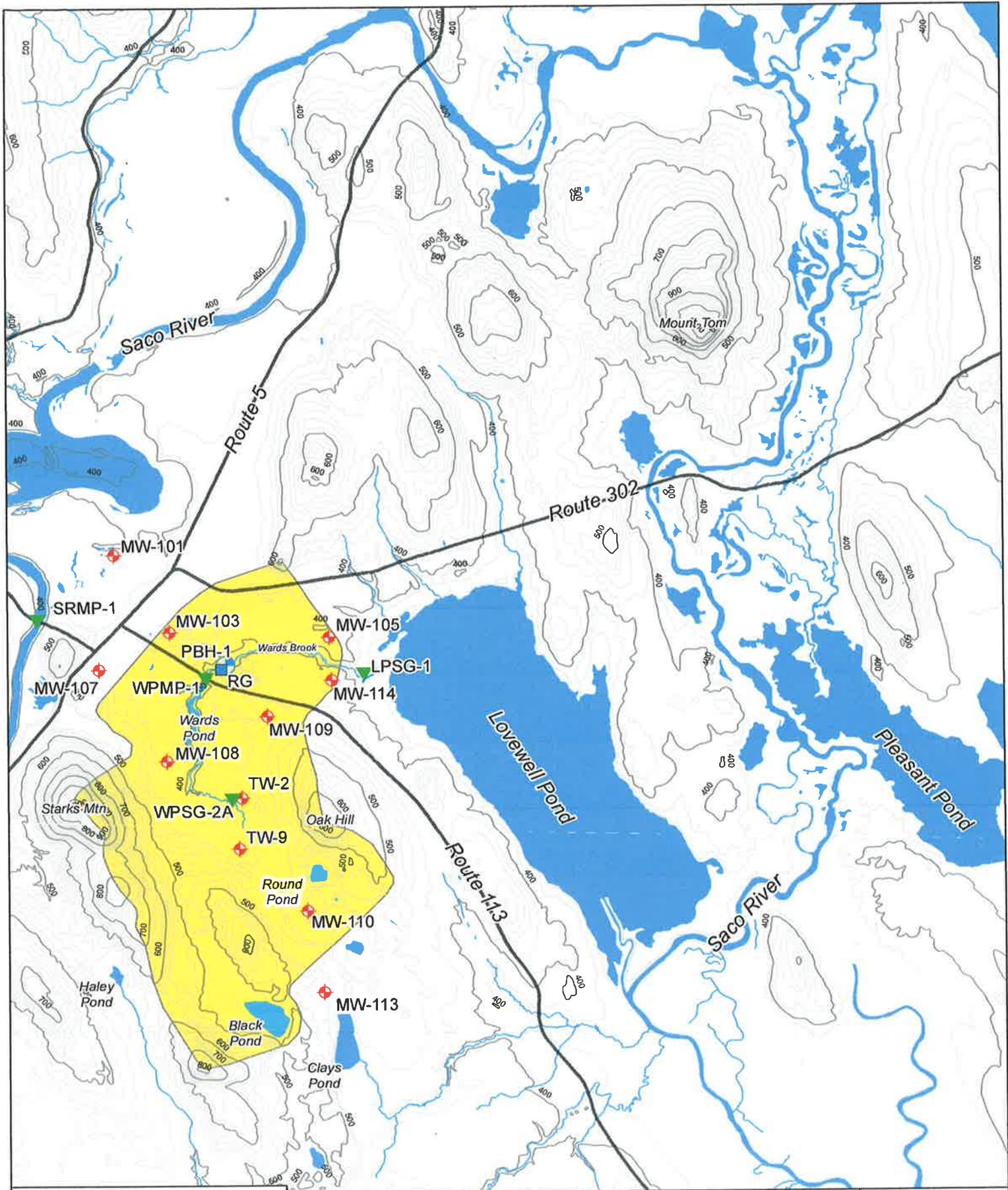
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



- BOREHOLE
- ◆ MONITORING WELL
- RAIN GAUGE
- ▲ SURFACE WATER STATION
- CONTOUR LINES
- WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE



N

 DATE:
 1/3/2012

NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

LGS
 LUETJE GEOLOGICAL SERVICES
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 207.415.8898
 lgs@maine.rr.com



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

July 30, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: June 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on June 19th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
JUNE 19th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	399.13
MW-103	421.58	411.75
MW-105	404.98	380.51
MW-107	431.95	425.89
MW-108	419.89	411.21
MW-109	420.11	399.56
MW-110	461.86	419.51
MW-113	441.13	422.25
MW-114	405.20	385.60
TW-2 ⁴	404.18	404.91
TW-9	409.24	410.97

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on June 19th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
JUNE 19th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.59
WPMP-1	401.27	397.07
SRMP-1	418.79	396.77
WPSG-2A	403.31 ³	401.07

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for June, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JUNE, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.23
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.76

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 10,842,291 gallons for the month of June, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)

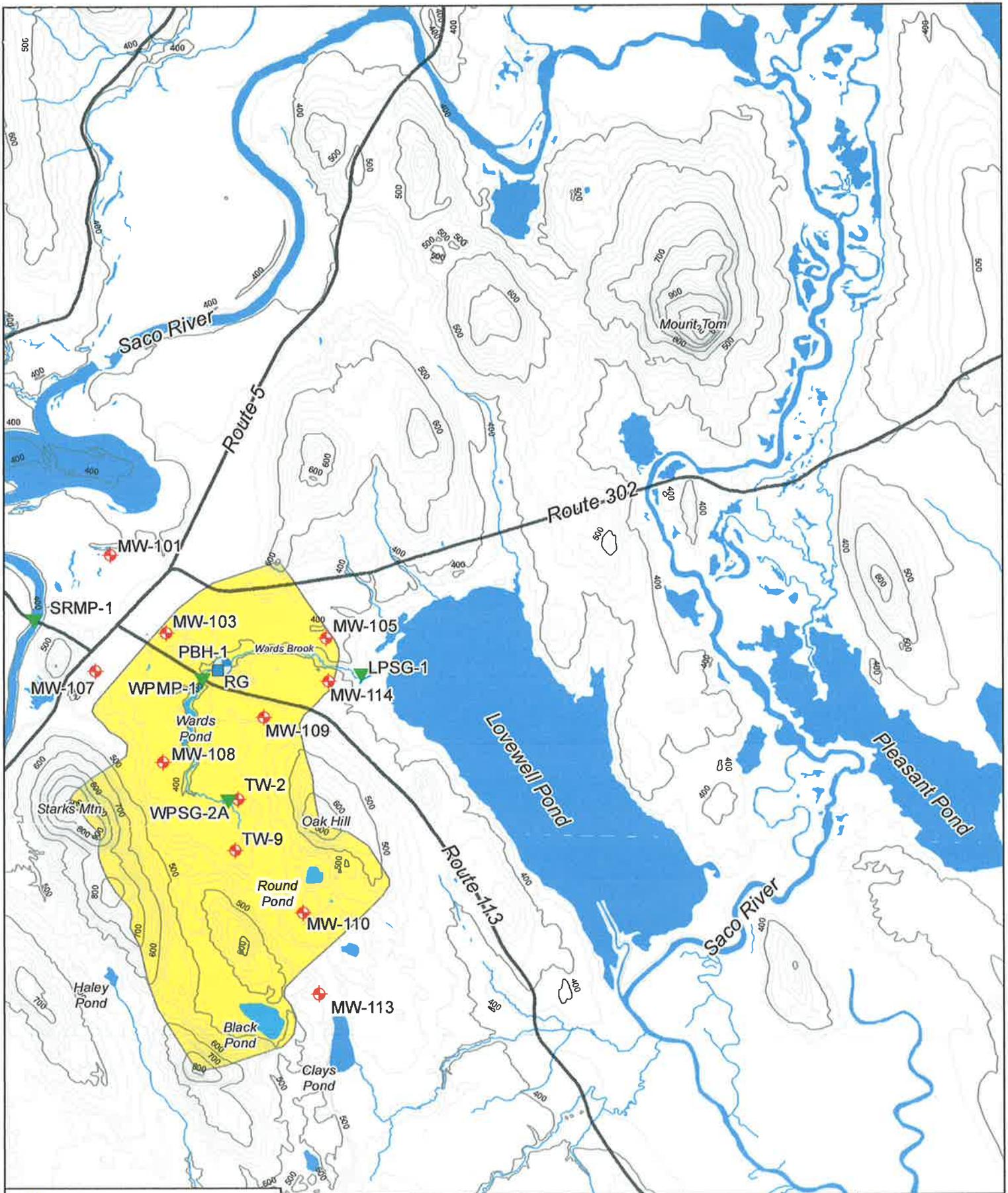
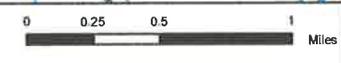


FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE

-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)



N
DATE:
1/3/2012

NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
2. CONTOURS ARE 20' INTERVALS.


LUETTE GEOLOGICAL SERVICES
58 FORE STREET
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207-415-9898
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Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

August 30, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: July 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on July 21st, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
JULY 21st, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	398.47
MW-103	421.58	411.02
MW-105	404.98	379.96
MW-107	431.95	424.35
MW-108	419.89	410.32
MW-109	420.11	398.86
MW-110	461.86	418.84
MW-113	441.13	421.75
MW-114	405.20	384.63
TW-2 ⁴	404.18	405.04
TW-9	409.24	410.29

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on July 21st, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
JULY 21st, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.49
WPMP-1	401.27	396.99
SRMP-1	418.79	396.13
WPSG-2A	403.31 ³	400.95

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for July, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JULY, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	5.88
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	7.27

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 13,399,507 gallons for the month of July, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

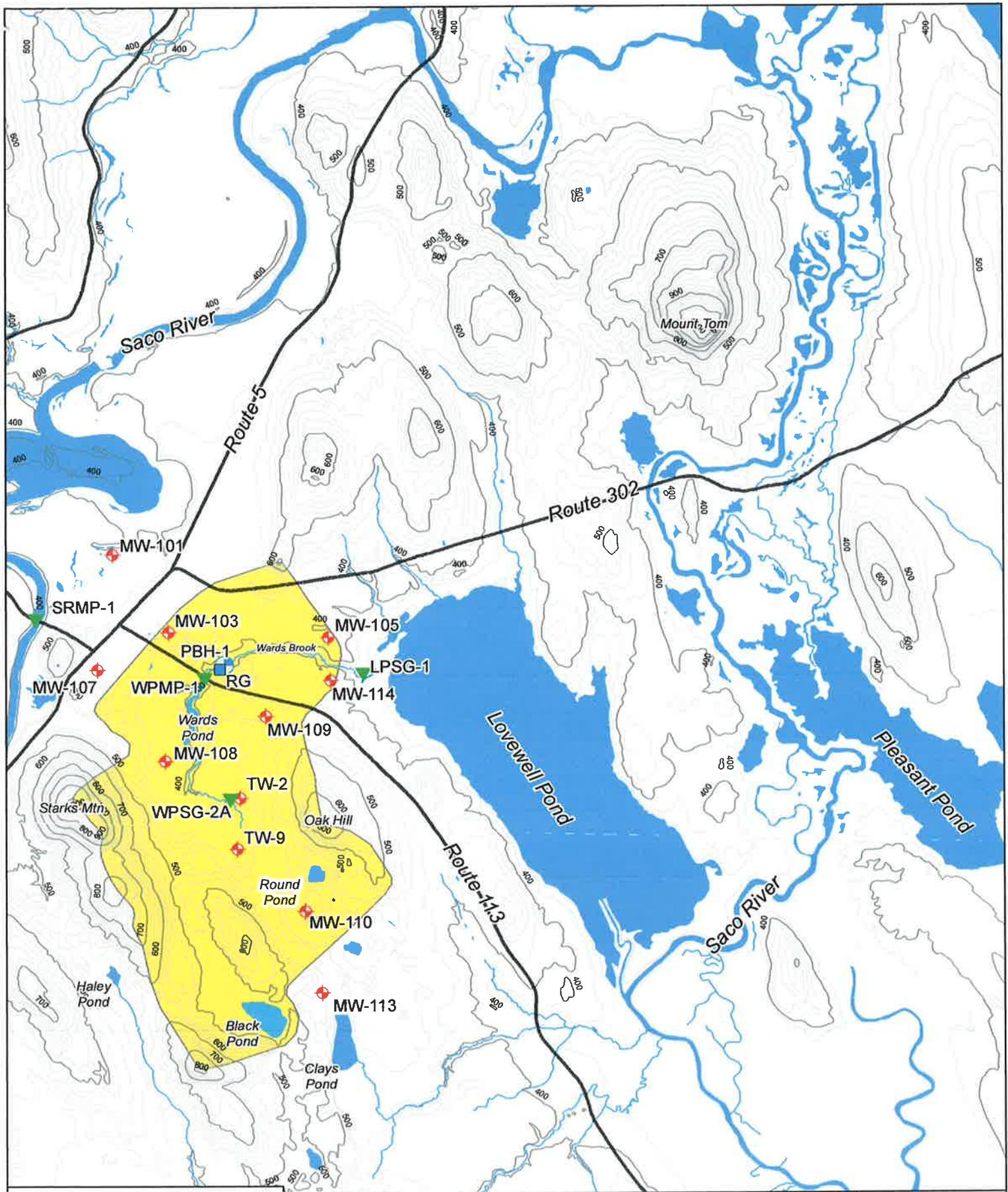
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE

0 0.25 0.5 1
 Miles

NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

N

 DATE:
 1/3/2012


LUETTE GEOLOGICAL SERVICES
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 207-415-9898
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Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

copies: selected 10-9-14

September 26, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: August 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on August 18th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
AUGUST 18th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	399.29
MW-103	421.58	411.59
MW-105	404.98	380.04
MW-107	431.95	424.39
MW-108	419.89	410.36
MW-109	420.11	398.49
MW-110	461.86	418.21
MW-113	441.13	421.38
MW-114	405.20	384.77
TW-2 ⁴	404.18	404.49
TW-9	409.24	410.01

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on August 18th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
AUGUST 18th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.64
WPMP-1	401.27	397.04
SRMP-1	418.79	396.84
WPSG-2A	403.31 ³	401.15

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for August, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
AUGUST, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.30
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.62

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 12,040,046 gallons for the month of August, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

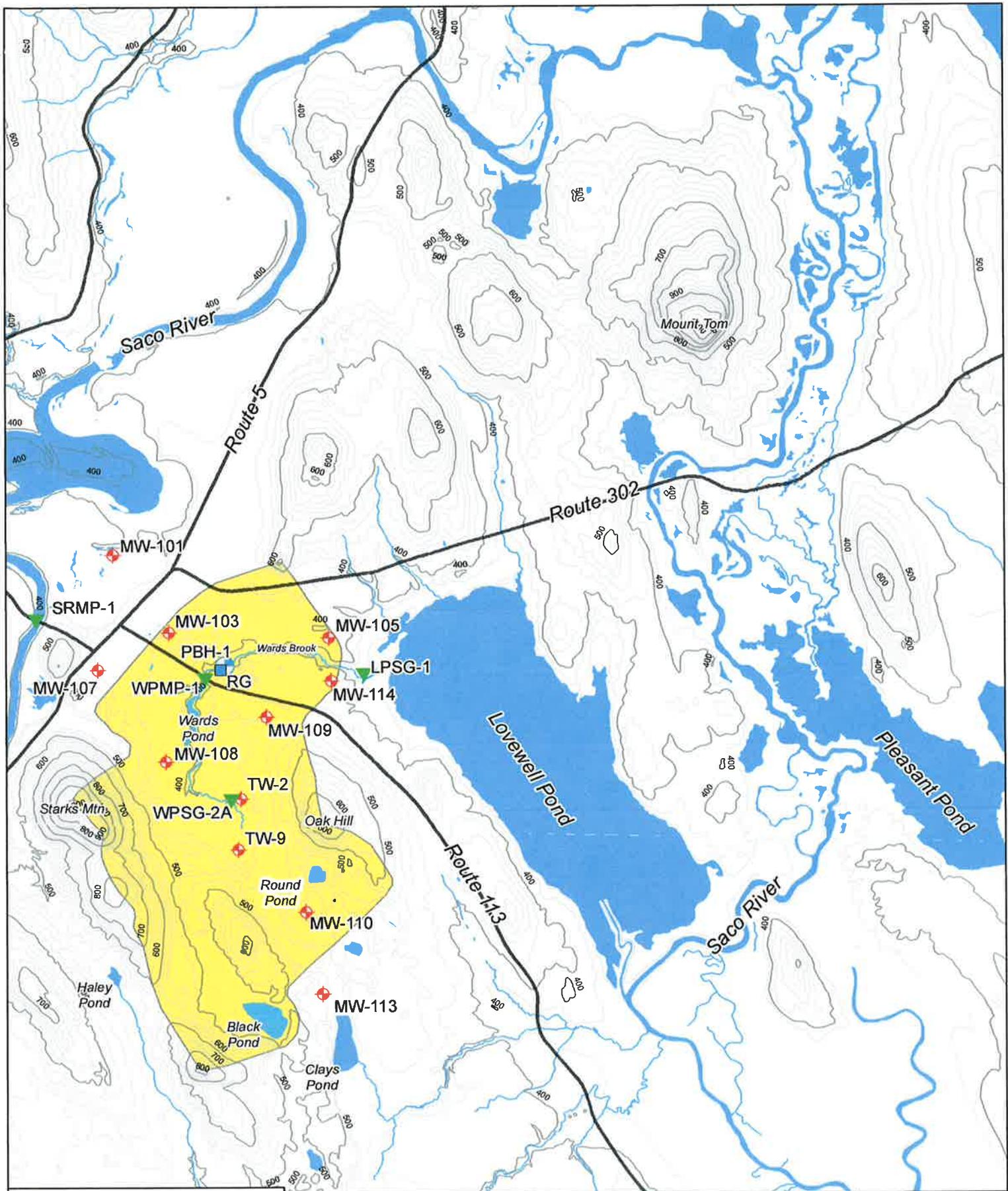
Sincerely,

Luetje Geological Services, LLC



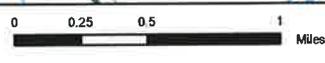
Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



	BOREHOLE
	MONITORING WELL
	RAIN GAUGE
	SURFACE WATER STATION
	CONTOUR LINES
	WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE



N

 DATE:
 1/3/2012

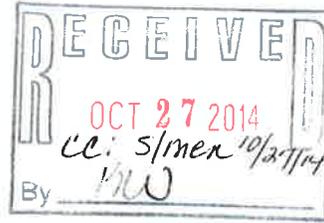
NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

LUETTE GEOLOGICAL SERVICES
 58 HOVE STREET
 FORTLAND, MAINE 04101
 207-415-9898
 lg@maine.rr.com



October 26, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: September 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on September 22nd, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
SEPTEMBER 22nd, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	397.55
MW-103	421.58	410.59
MW-105	404.98	379.41
MW-107	431.95	422.39
MW-108	419.89	409.17
MW-109	420.11	397.97
MW-110	461.86	417.50
MW-113	441.13	420.88
MW-114	405.20	383.56
TW-2 ⁴	404.18	403.93
TW-9	409.24	409.42

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on September 22nd, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
SEPTEMBER 22nd, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.50
WPMP-1	401.27	396.97
SRMP-1	418.79	395.14
WPSG-2A	403.31 ³	400.85

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for September, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
SEPTEMBER, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	0.68
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	0.85

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 9,096,601 gallons for the month of September, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

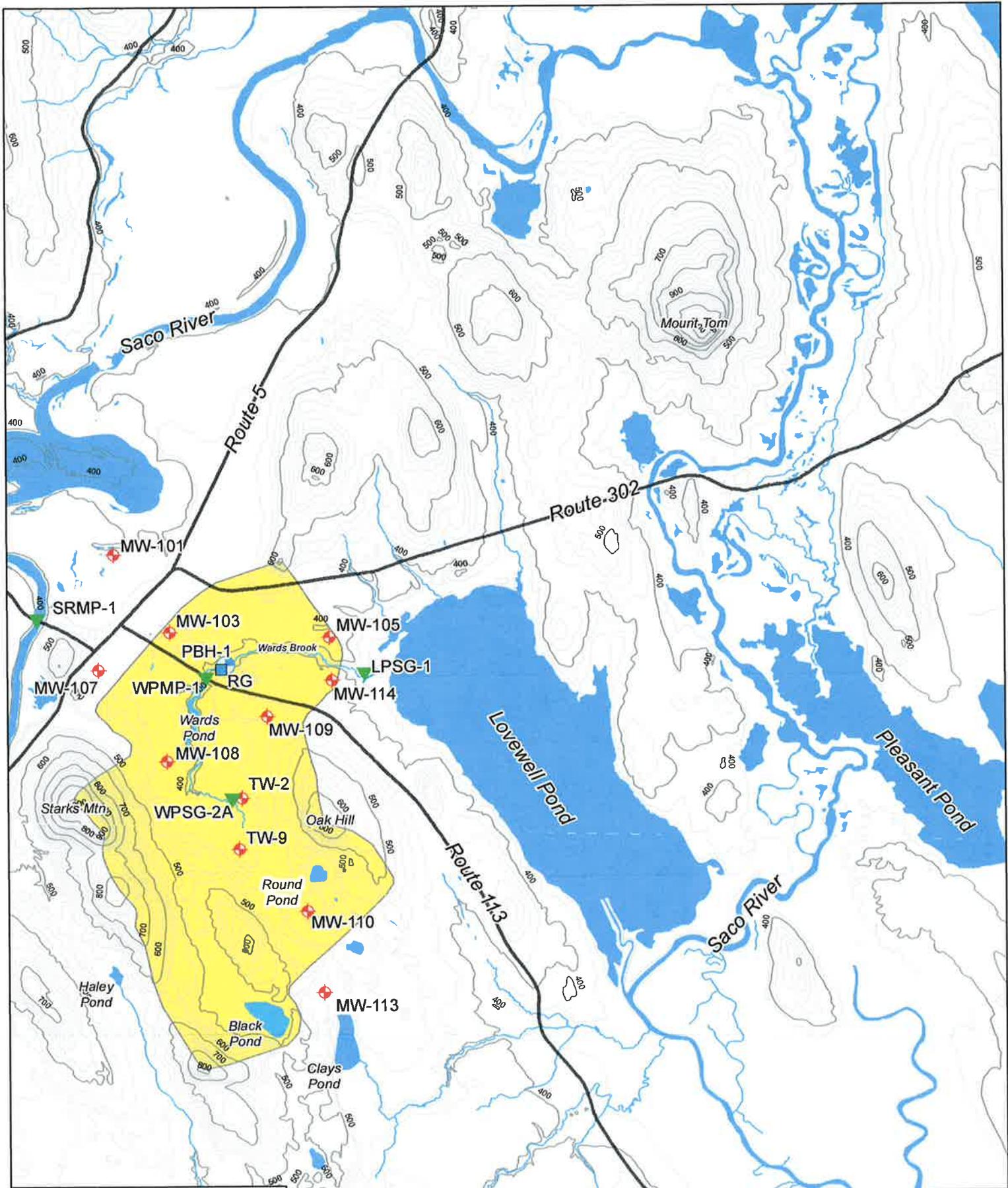
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE



NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
2. CONTOURS ARE 20' INTERVALS.

DATE:
1/3/2012


LUEIJE GEOLOGICAL SERVICES
58 FORE STREET
PORTLAND, MAINE 04101
207-415-9898
lg@maine.rr.com



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

*For Katie
sj 12/8/14*

November 25, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037



RE: October 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on October 20th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
OCTOBER 20th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	397.91
MW-103	421.58	410.02
MW-105	404.98	379.20
MW-107	431.95	421.17
MW-108	419.89	408.71
MW-109	420.11	397.51
MW-110	461.86	416.81
MW-113	441.13	420.50
MW-114	405.20	382.90
TW-2 ⁴	404.18	402.47
TW-9	409.24	408.91

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on October 20th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
OCTOBER 20th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.69
WPMP-1	401.27	397.07
SRMP-1	418.79	396.11
WPSG-2A	403.31 ³	400.98

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for October, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
OCTOBER, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.23
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	4.76

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 5,133,645 gallons for the month of October, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

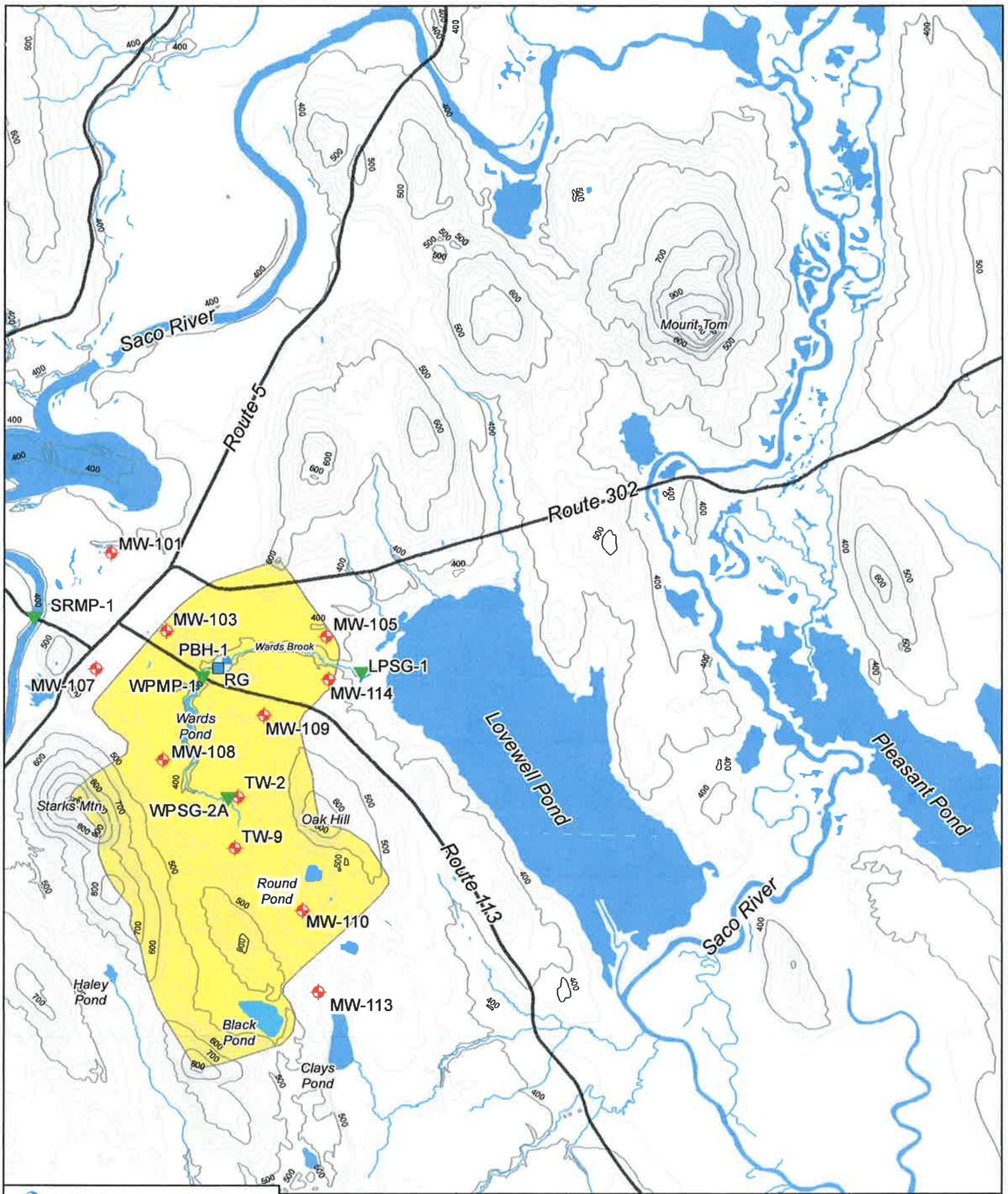
Sincerely,

Luetje Geological Services, LLC



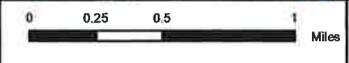
Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Clerk)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE

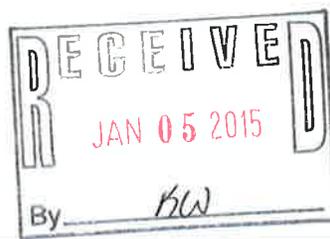


NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

N

 DATE:
 1/3/2012


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 207-415-9898
 lg@maine.rr.com



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

December 31, 2014

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: November 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on November 20th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
NOVEMBER 20th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	398.57
MW-103	421.58	409.87
MW-105	404.98	379.24
MW-107	431.95	420.82
MW-108	419.89	409.05
MW-109	420.11	397.48
MW-110	461.86	416.21
MW-113	441.13	420.21
MW-114	405.20	383.50
TW-2 ⁴	404.18	402.40
TW-9	409.24	Frozen

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on November 20th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
NOVEMBER 20th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.60
WPMP-1	401.27	397.04
SRMP-1	418.79	396.64
WPSG-2A	403.31 ³	401.01

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for November, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
NOVEMBER, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.44
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.54

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 4,591,985 gallons for the month of November, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

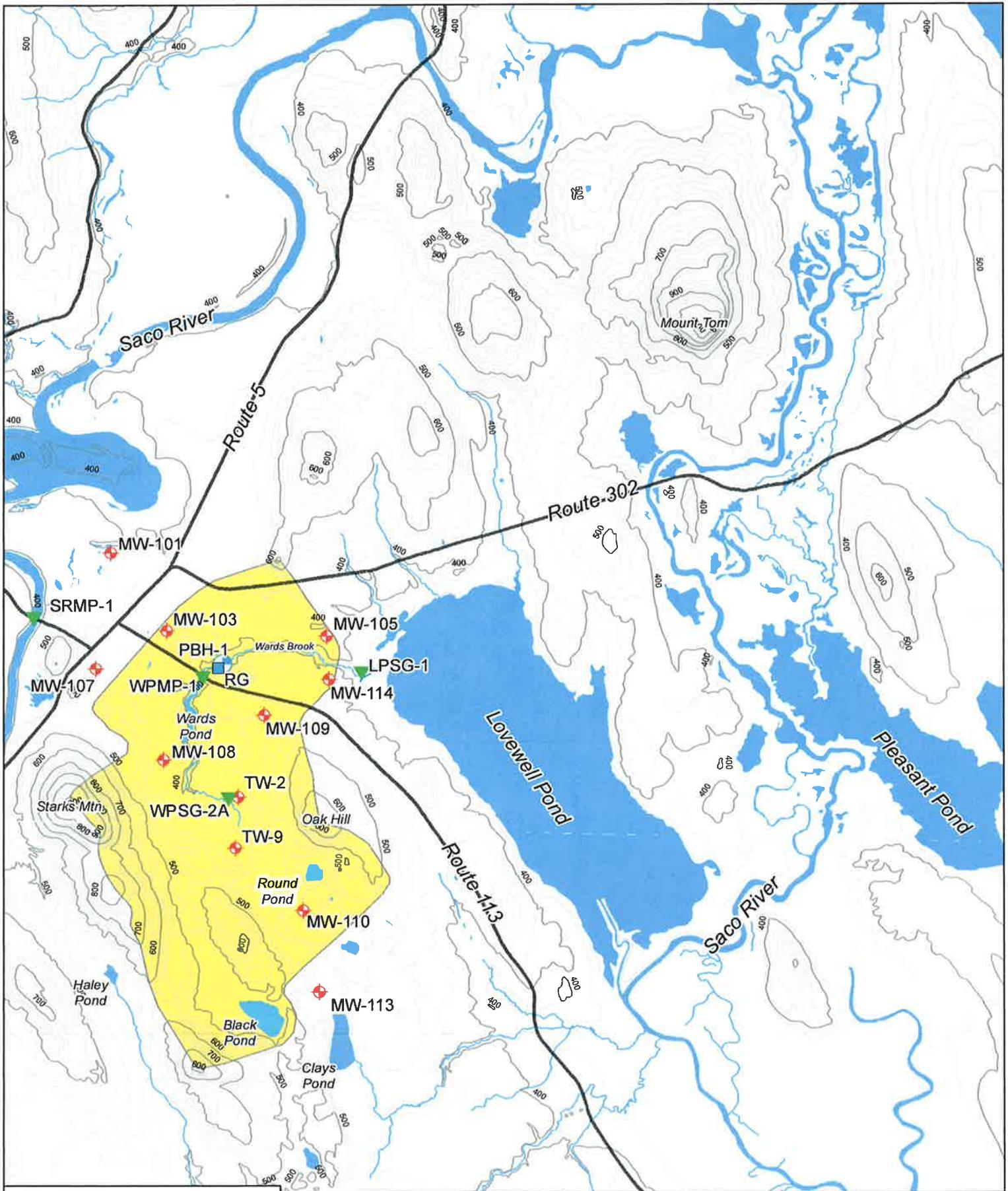
Sincerely,

Luetje Geological Services, LLC



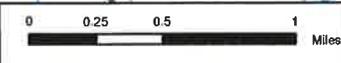
Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Clerk)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE



NOTES:
1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS
2. CONTOURS ARE 20' INTERVALS.

N

DATE:
1/3/2012



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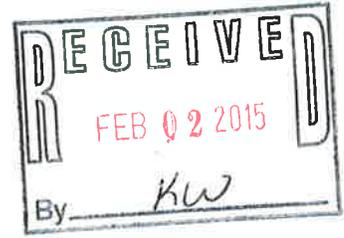


Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

January 25, 2015

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

COPY



RE: December 2014 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on December 19th, 2014.

**TABLE 1: GROUNDWATER ELEVATION DATA
DECEMBER 19th, 2014**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	399.85
MW-103	421.58	410.69
MW-105	404.98	379.76
MW-107	431.95	422.56
MW-108	419.89	410.09
MW-109	420.11	397.66
MW-110	461.86	415.87
MW-113	441.13	420.10
MW-114	405.20	385.08
TW-2 ⁴	404.18	402.34
TW-9	409.24	Frozen

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gage (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gage (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on December 19th, 2014.

**TABLE 2: SURFACE WATER ELEVATION DATA
DECEMBER 19th, 2014**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.76 ³	362.83
WPMP-1	401.27	397.22
SRMP-1	418.79	397.24
WPSG-2A	403.31 ³	401.26

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gage for surface water stations) elevation in feet NAVD.
 2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.
 3. Reference elevations for LPSG-1 and WPSG-2A were resurveyed on May 8, 2014 because of the potential movement of the gages due to winter ice conditions. Surface water elevations in this report reflect the updated reference elevations.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for December, 2014.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
DECEMBER, 2014**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	5.32
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	5.40

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 6,208,666 gallons for the month of December, 2014.

Based on the groundwater and surface water data collected in Fryeburg, Luetje Geological Services has not observed any adverse impact to waters of the State, water-related natural resources and existing uses as a result of the sale of water by the Fryeburg Water Company to Poland Spring.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

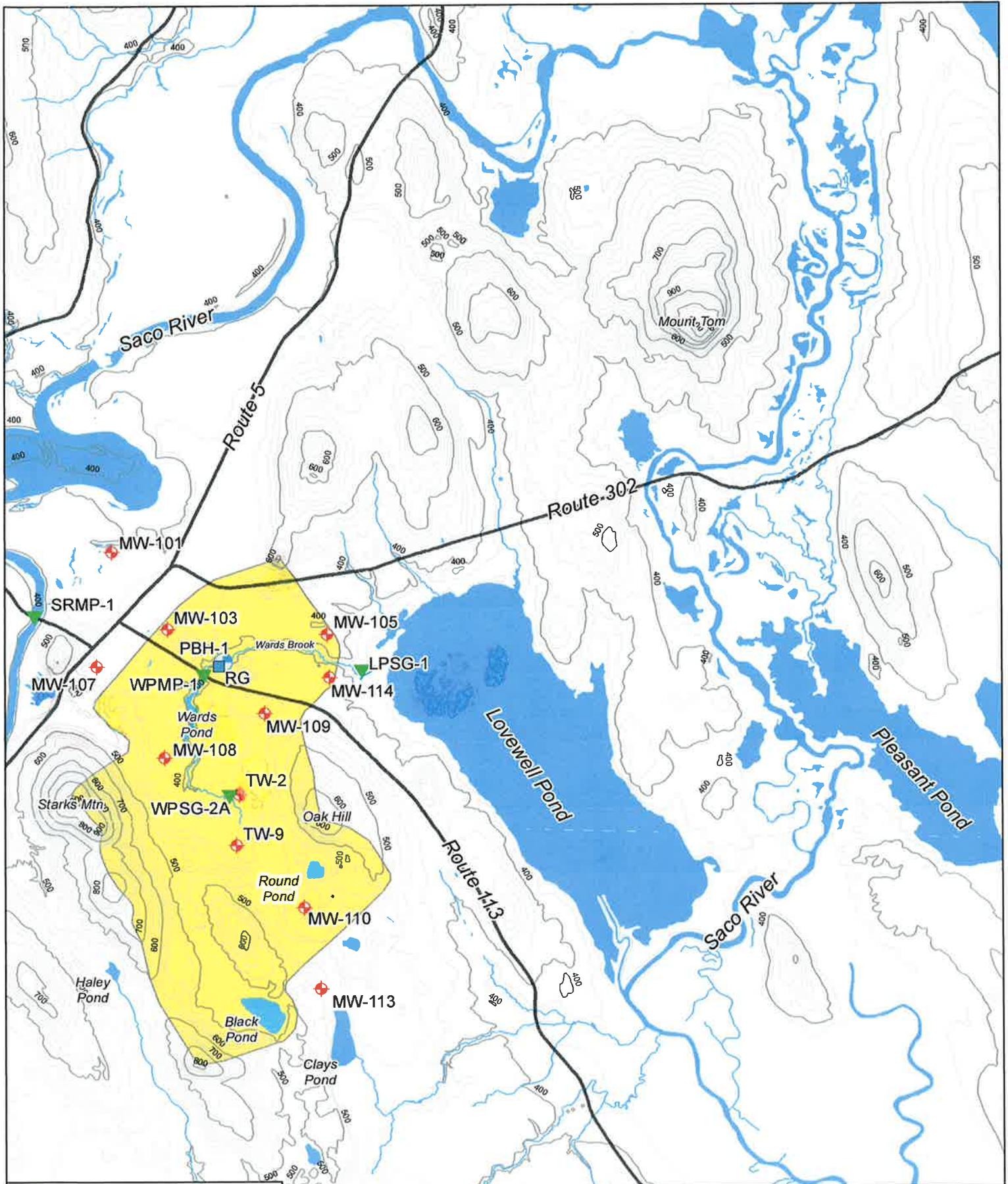
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Clerk)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



-  BOREHOLE
-  MONITORING WELL
-  RAIN GAUGE
-  SURFACE WATER STATION
-  CONTOUR LINES
-  WARDS BROOK WATERSHED (APPROXIMATE)

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
FRYEBURG, MAINE

0 0.25 0.5 1
 Miles

NOTES:
 1. ALL GENERAL DATA LAYERS ACQUIRED FROM THE MAINE OFFICE OF GIS.
 2. CONTOURS ARE 20' INTERVALS.

N

 DATE:
 1/3/2012


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 lg@maine.rr.com